



Tubelite®



ALUMINUM ENTRANCES

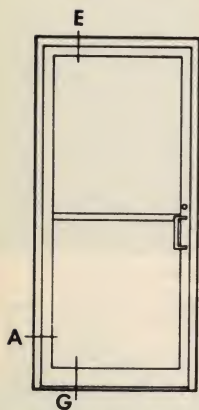


PITTSBURGH PLATE GLASS COMPANY

Tubelite®

ALUMINUM DOORS OF DISTINCTION

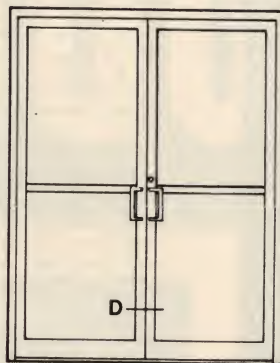
Standard size entrances are shown below. Special entrances can be made to architect's design from our standard construction.



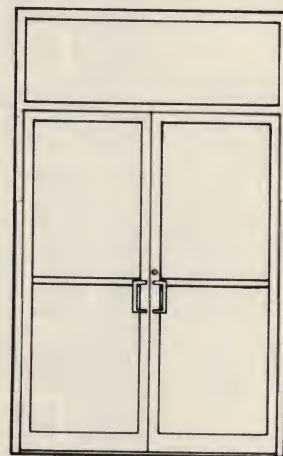
TYPE S-1, SINGLE DOOR
WITH OR WITHOUT FRAME



TYPE S-2, SINGLE DOOR WITH
TRANSOM FIXED OR OPERATING



TYPE D-1, DOUBLE DOOR
WITH OR WITHOUT FRAME



TYPE D-2, DOUBLE DOOR
WITH TRANSOM FIXED OR OPERATING

STOCK DOORS & FRAMES

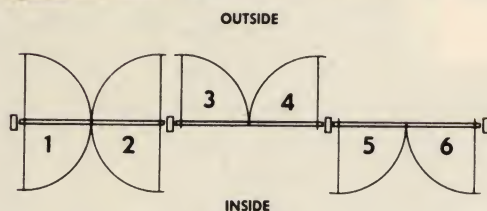
STANDARD SIZES

SINGLE DOORS	DOUBLE DOORS
3'-0" x 7'-0"	2'-6" x 7'-0"
3'-6" x 7'-0"	3'-0" x 7'-0"

STANDARD HARDWARE

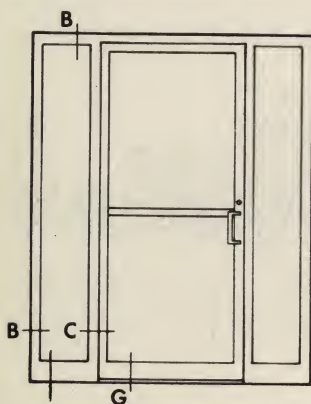
1 pair of No. 500-25 bronze ball bearing butt hinges per door, push bar No. 500-50, pull handle No. 500-5, dead bolt lock No. 500-21, Yale compact overhead door closer, top and bottom flush bolts No. 500-59 and a 4" threshold.

Stock doors can also be furnished on single or double acting floor checks, with or without a 7½" threshold.



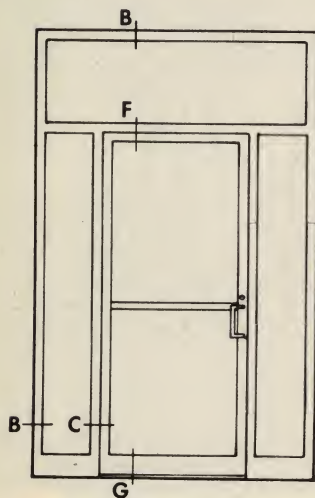
SPECIFY SWING OF DOOR BY NUMBER

NOTE: Unless otherwise specified, door or doors will be furnished with frame, fixed transom, (when transom is required), and 4" bottom rail.

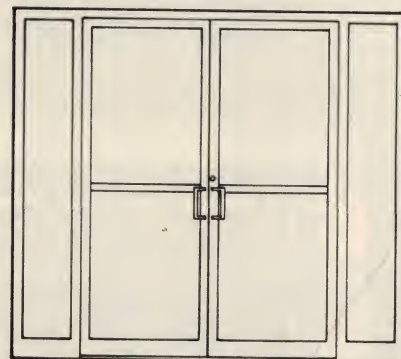


TYPE S-3, SINGLE DOOR
WITH SIDELIGHTS

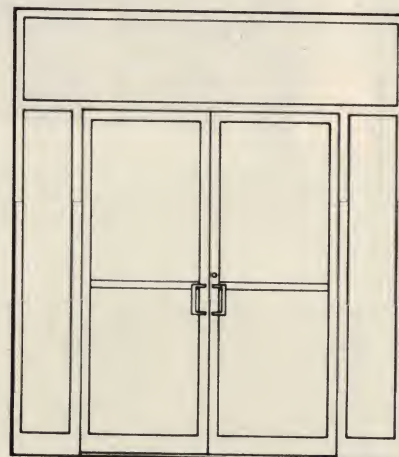
SEE PAGE 14
ASSEMBLY OF
400-53 AND
400-92



TYPE S-4, SINGLE DOOR WITH SIDELIGHTS
WITH TRANSOM FIXED OR OPERATING



TYPE D-3, DOUBLE DOOR
WITH SIDELIGHTS

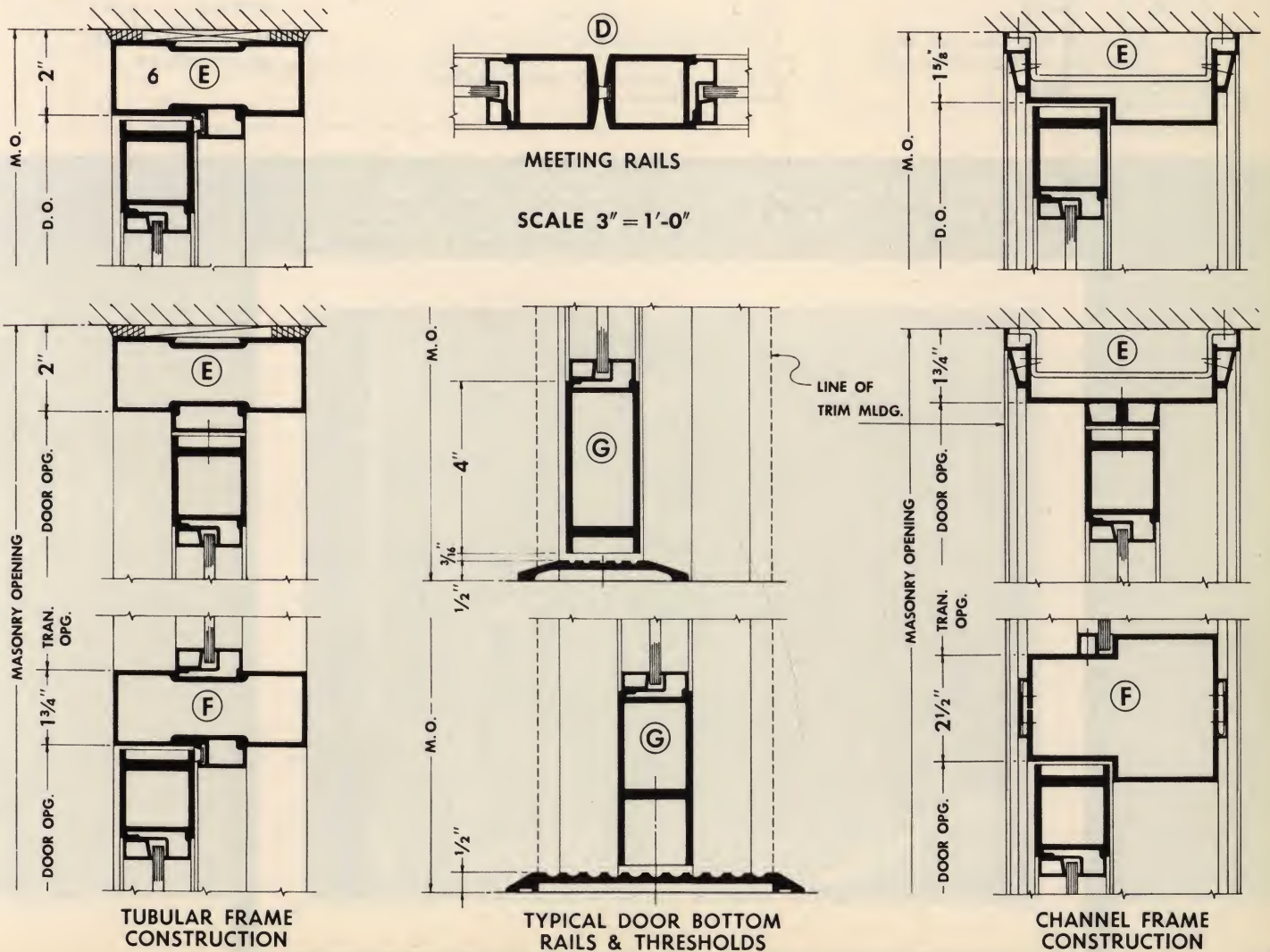
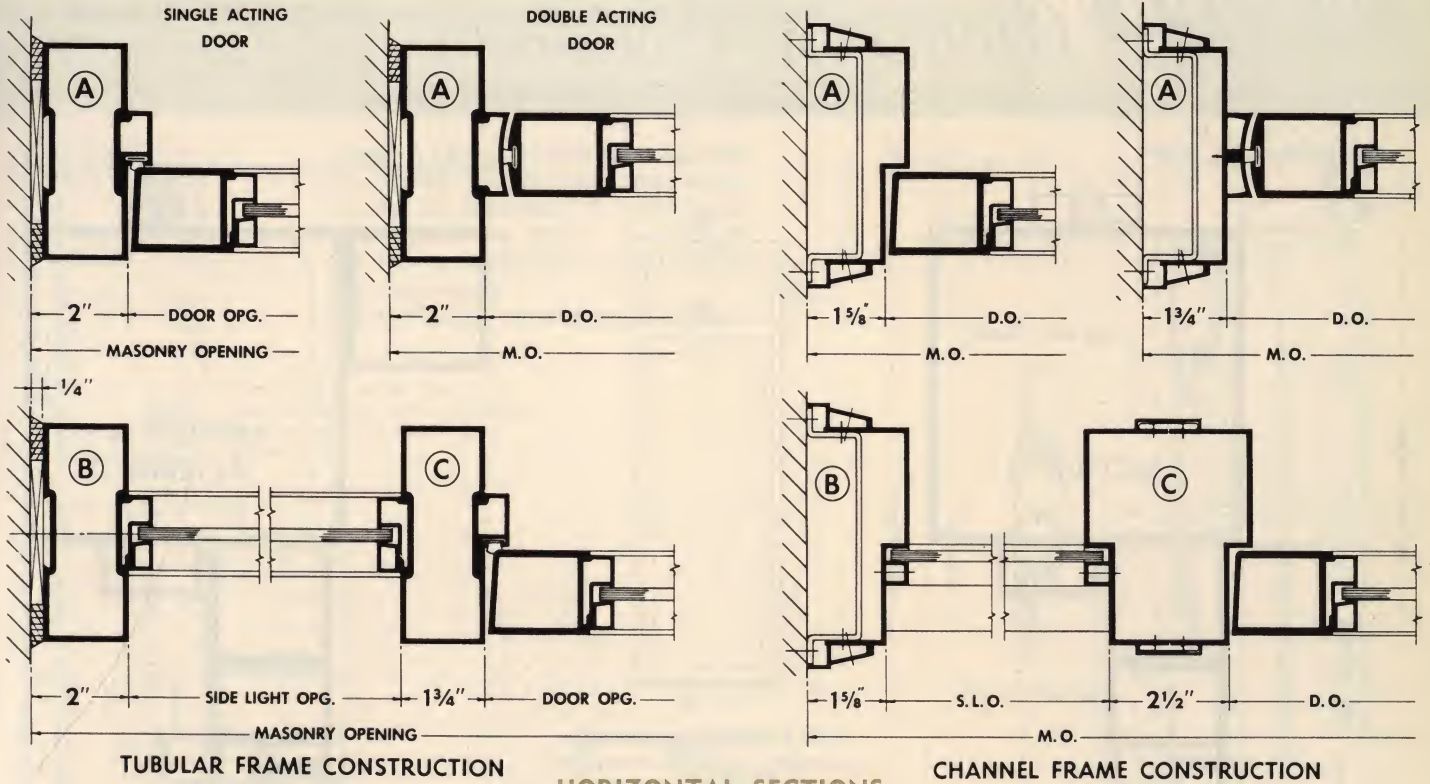


TYPE D-4, DOUBLE DOOR WITH SIDELIGHTS
WITH TRANSOM FIXED OR OPERATING

STANDARD DOORS AND FRAMES

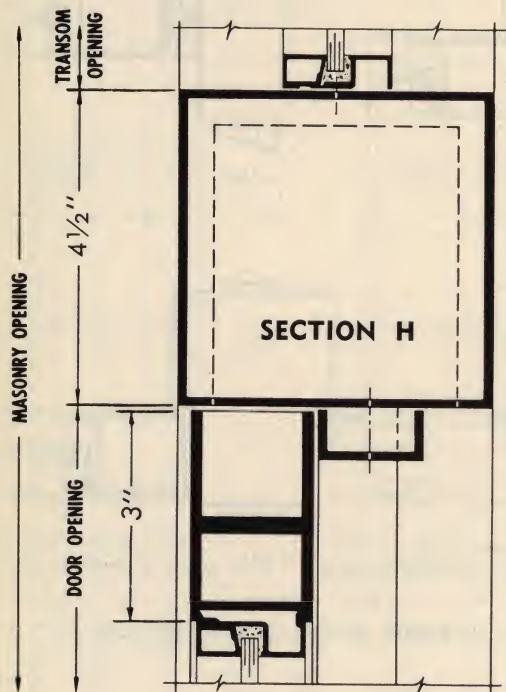
FINISH - POLISHED ALUMILITE 204A2

16a
Pi

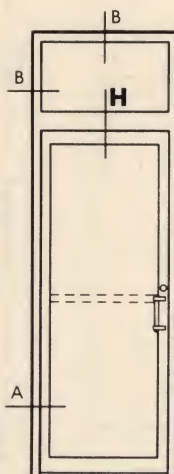


Tubelite®

Aluminum Entrances



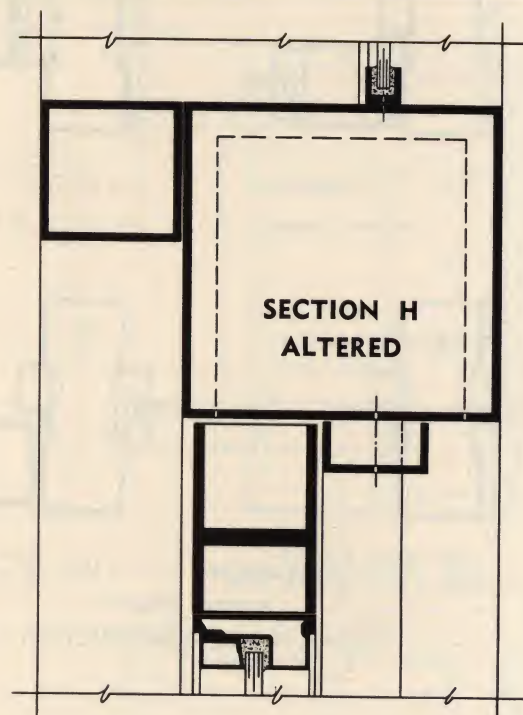
4 1/2" x 4 1/2" TRANSOM BAR WITH
OVERHEAD CONCEALED CLOSER



TYPE S-2, SINGLE DOOR WITH
TRANSOM FIXED OR OPERATING

NOTE

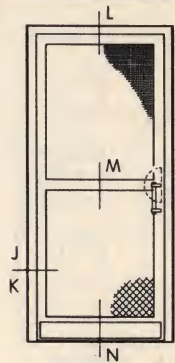
The standard height of the door bottom rail is 4". A high bottom rail can be furnished if desired by adding surface applied kickplates.



CUSTOM CONSTRUCTION
SHOWN BELOW

STANDARD TUBELITE DOORS & FRAMES WITH OVERHEAD CONCEALED CLOSERS

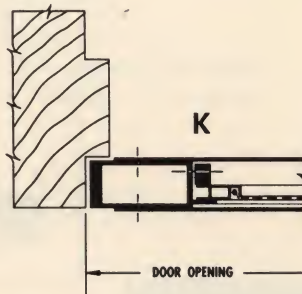
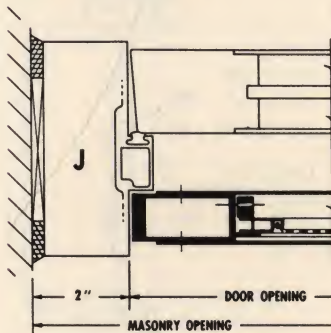




KEY ELEVATION

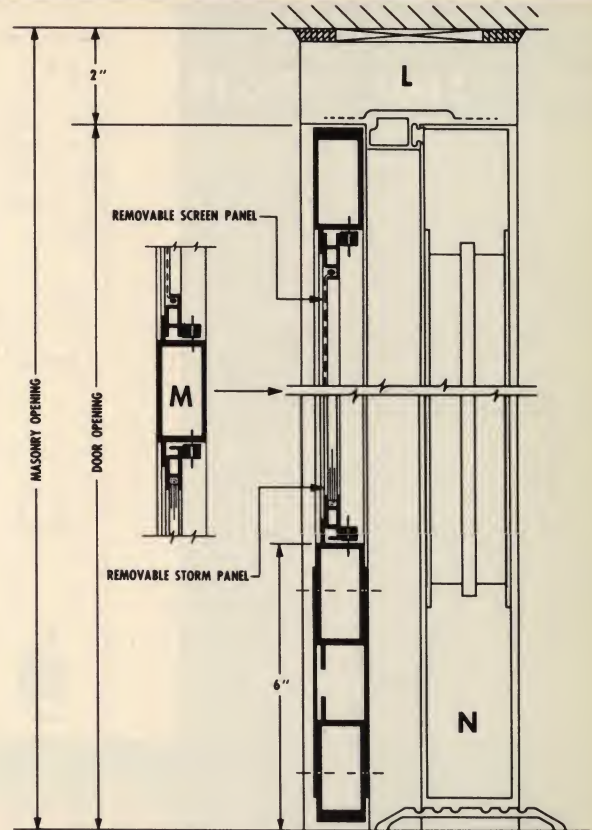
Lower half of screen door may be supplied with expanded metal guard over screen if required.

HARDWARE - 1½ pair of butt hinges No. 500-56, Yale overhead door closer No. 500-93, push plate No. 500-79 and pull handle No. 500-5. Latch lock set may be substituted for push plate and pull handle.
IMPORTANT - Specify swing of door.



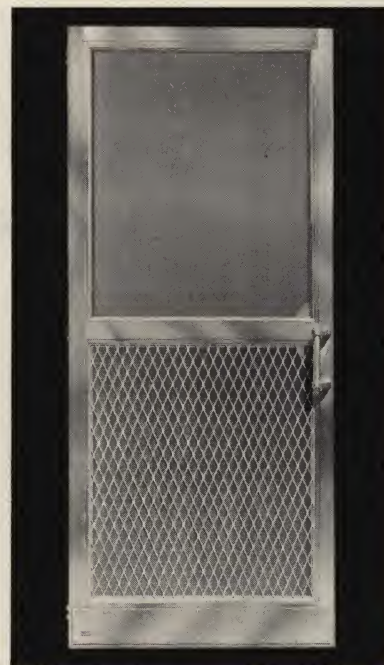
HORIZONTAL SECTIONS

NOTE—In ordering screen doors specify door opening size.



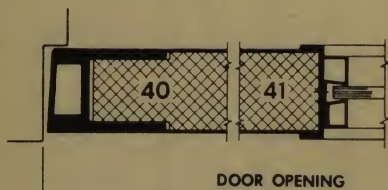
VERTICAL SECTIONS

SCREEN DOOR AND STORM SASH

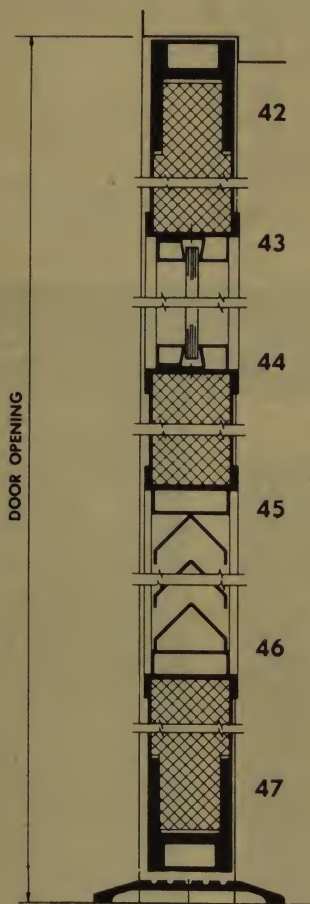


Aluminum Entrances

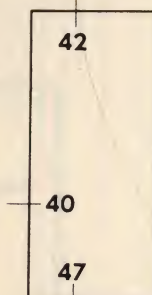
FLUSH PANEL DOORS



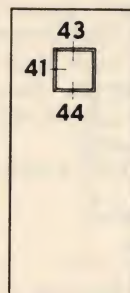
HORIZONTAL SECTION



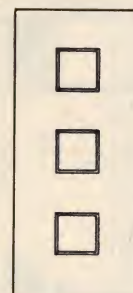
VERTICAL SECTIONS



TYPE S-7

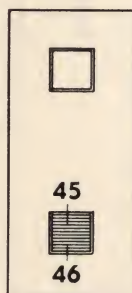


TYPE S-8

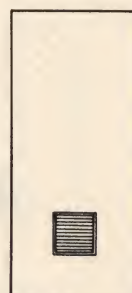


TYPE S-9

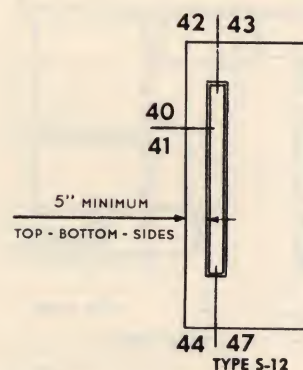
TYPICAL ELEVATIONS



TYPE S-10



TYPE S-11



TYPE S-12

SUBSTITUTE LETTER "D" FOR "S" IN SPECIFYING DOUBLE DOORS

Standard Hardware - 1½ pair of No. 500-92 bronze ball bearing butt hinges per door, keyed knob latch or dead bolt lock No. 500-21 with pull handle No. 500-5 and push plate No. 500-53, Yale compact overhead door closer, top and bottom flush bolts No. 500-59 and a 4" threshold.

Stock doors can also be furnished on single or double acting floor checks, with or without a 7½" threshold.

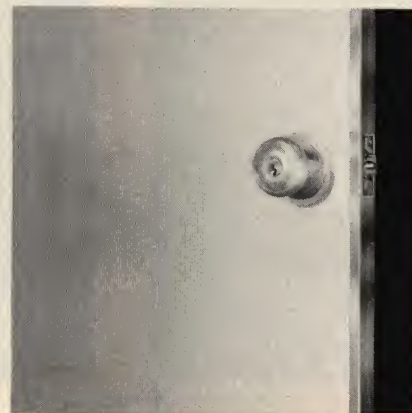
STANDARD SIZES

SINGLE DOORS	DOUBLE DOORS
2'-8" x 7'-0"	5'-0" x 7'-0"
3'-0" x 7'-0"	6'-0" x 7'-0"
3'-6" x 7'-0"	
4'-0" x 7'-0"	

Flush doors can be prepared to receive narrow line concealed panic hardware.



DEAD BOLT LOCK
& PULL HANDLE



KEYED KNOB LATCH

DOOR SPECIFICATIONS

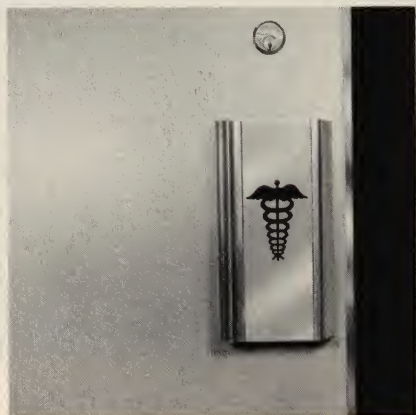
A solid fibrous core representing a sturdy solution to the reinforcement problem of flush construction. Also the use of an extruded aluminum H frame around the perimeter of the door and the employment of an extruded stile into which the facing material is mechanically interlocked, forms an exceptionally rigid construction.

CORE

- (1) Weight per square foot $1\frac{5}{8}$ " thick -
2.161 lb. / sq. ft. (Average)
- (2) Strength -
Tensile - 250 lb. / sq. inch (Average)
(A) Compression (Lbs. per sq. inch)
Approximately 100 lbs. / sq. inch.
Compression to 90% of original thickness.
Recovery to 100% of original thickness.
(B) Flexural strength
Transverse strength -
82 lbs. (Machine Direction)
65 lbs. (Cross Machine Direction)
- (3) Fireproof rating -
Slow burning.
- (4) Insulation Value -
K value - 0.33 to 0.36 depending
on density.
U value of $1\frac{5}{8}$ " thickness - 0.20
to 0.22 btu. depending on
density.
- (5) Water absorption average
(Per cent vol.)
5.0% (2 hour test)



"This label is your assurance of quality"

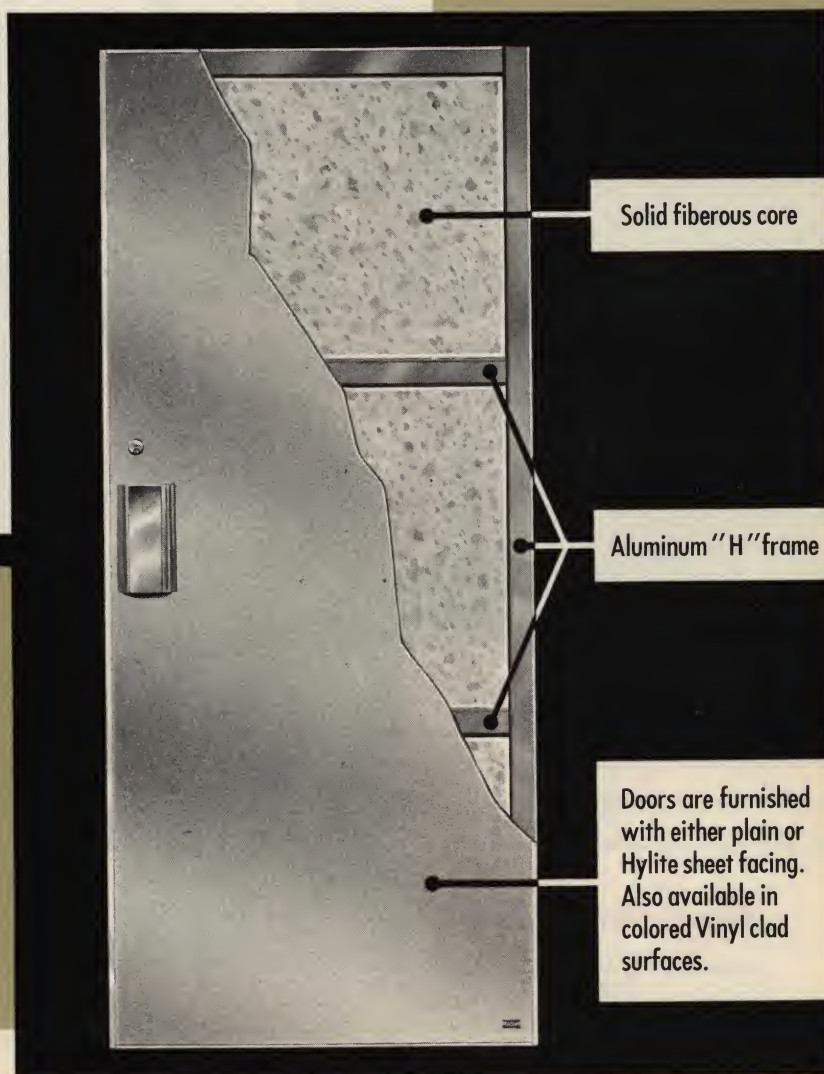


CUSTOM PUSH - PULL

SEE PAGE 8

FLUSH PANEL DOORS

- CHURCHES
- COMMERCIAL BUILDINGS
- HOSPITALS
- HOTELS
- INDUSTRIAL BUILDINGS
- PUBLIC BUILDINGS
- SCHOOLS



Unlimited

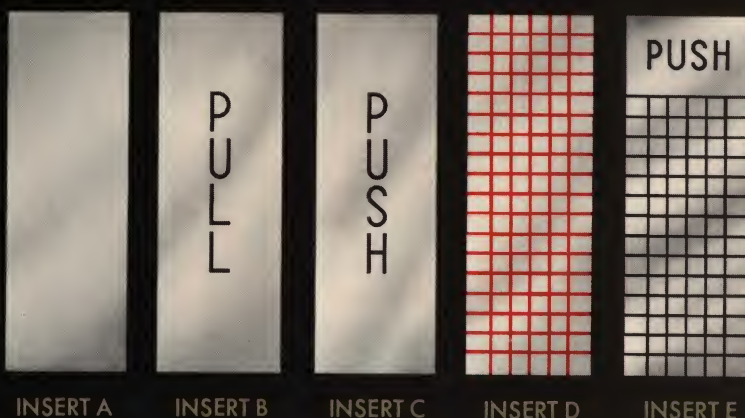
Tubelite®

Lettering and crosshatching on standard

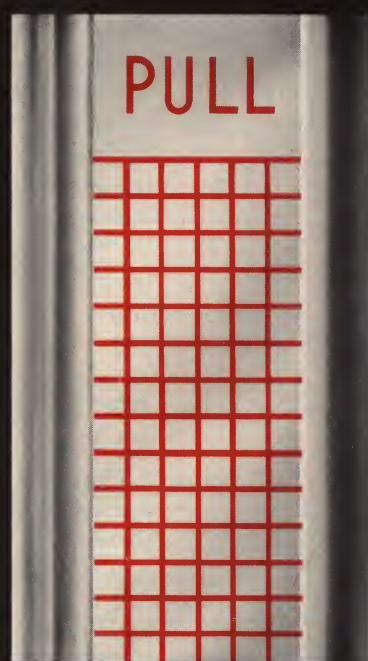
Aluminum Pull Plate size—5"x9"

Aluminum Insert size—3 1/8"x9"

STANDARD DESIGNS — specify color desired



The above are just a few of the many custom designs possible

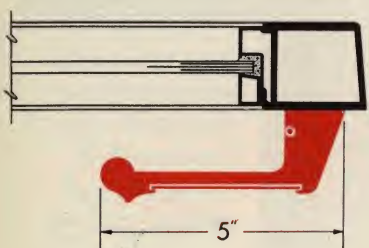


500-156 PULL PLATE
WITH INSERT F

Also available in solid colored Vinyl Plastic surfaces in the following colors.

Metal Green	Cordovan
Red	Ebony
Blue	Dark Mahogany
Blizzard Grey	Bronco Brown

500-156 PULL-DETAIL



500-156 is interchangeable with Pull Handle 500-5

DESIGNED TO MEET

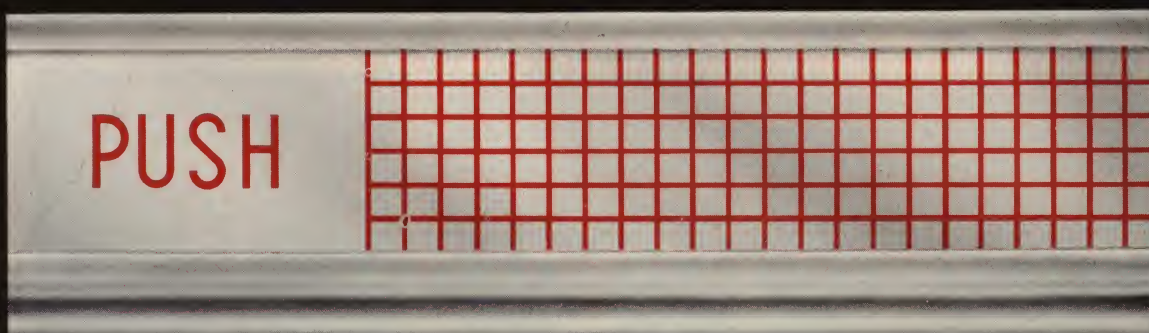
SCALE: 3"=1'-0"

"Multi-Insert" push-pull plates

Designs to be black unless otherwise specified

Aluminum Push Plate size—4 1/2" x 16"

Aluminum Insert size—3 1/8" x 16" STANDARD DESIGNS — specify color desired



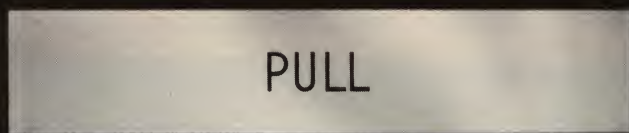
500-157 PUSH PLATE WITH INSERT E



INSERT A



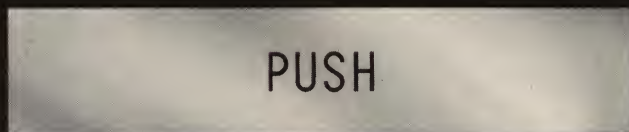
INSERT D



INSERT B



INSERT F

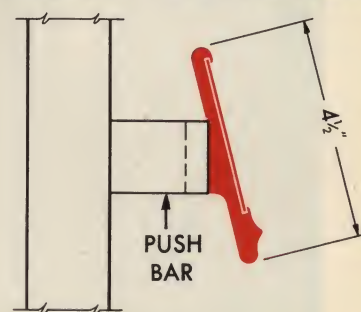


INSERT C

Unlimited custom designs
upon request

500-157 is applicable to Push Bar 500-50

500-157 PUSH-DETAIL

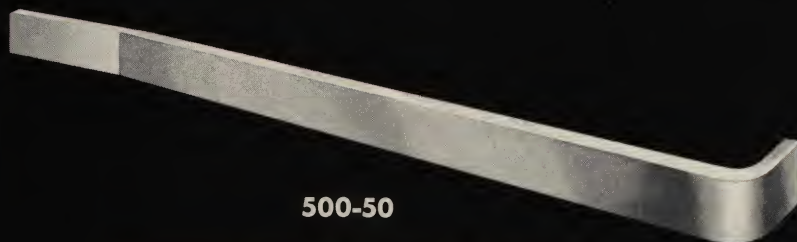


SCALE: 3" = 1'-0"

YOUR DEMANDS

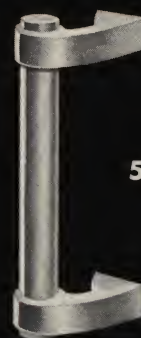
TUBELITE® PUSH AND PULLS

FINISH: POLISHED ALUMILITE 204 A2

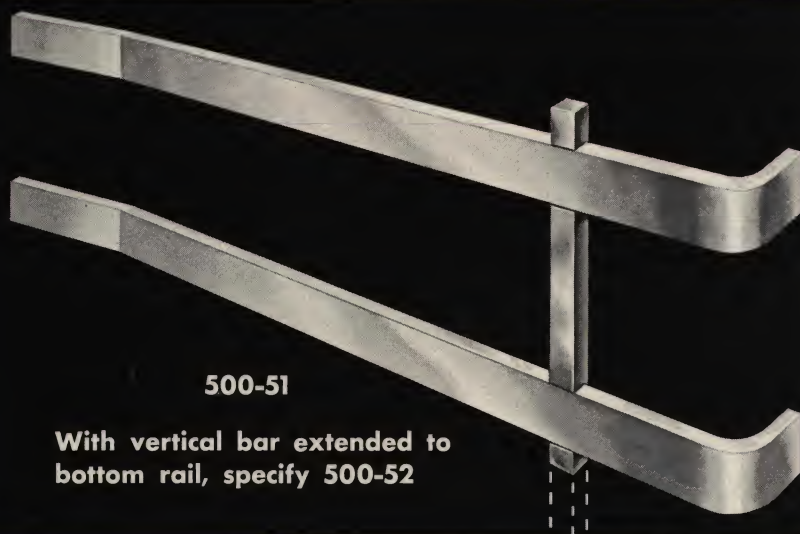


500-50

Standard Push Bar and Pull Handle



500-5



500-51

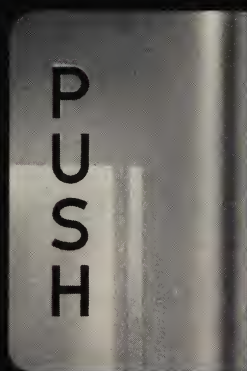
With vertical bar extended to
bottom rail, specify 500-52



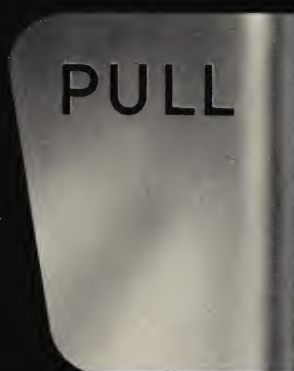
500-119



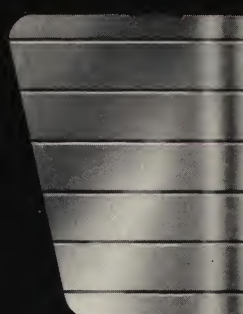
500-120



500-53



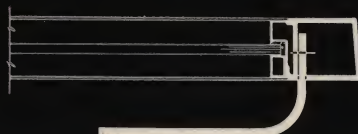
500-55



500-54

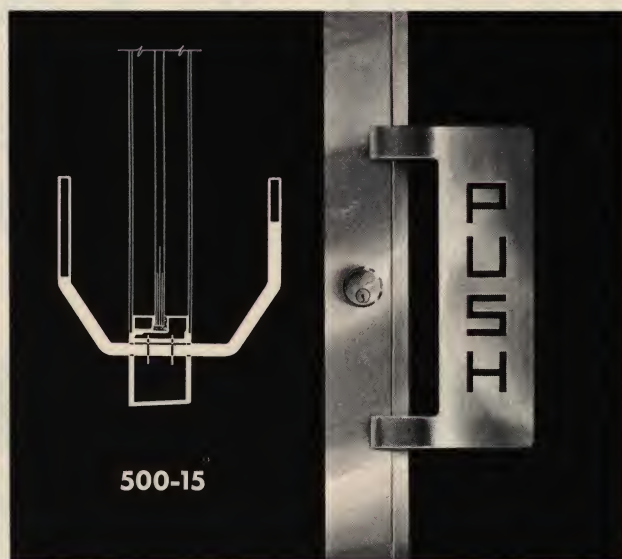
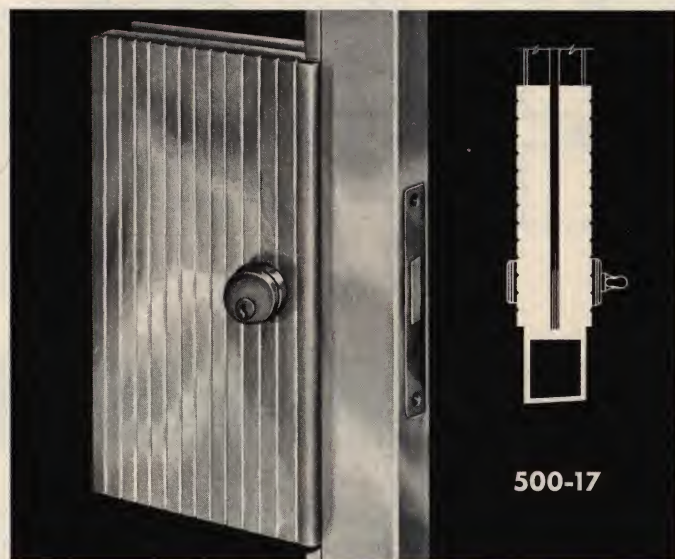
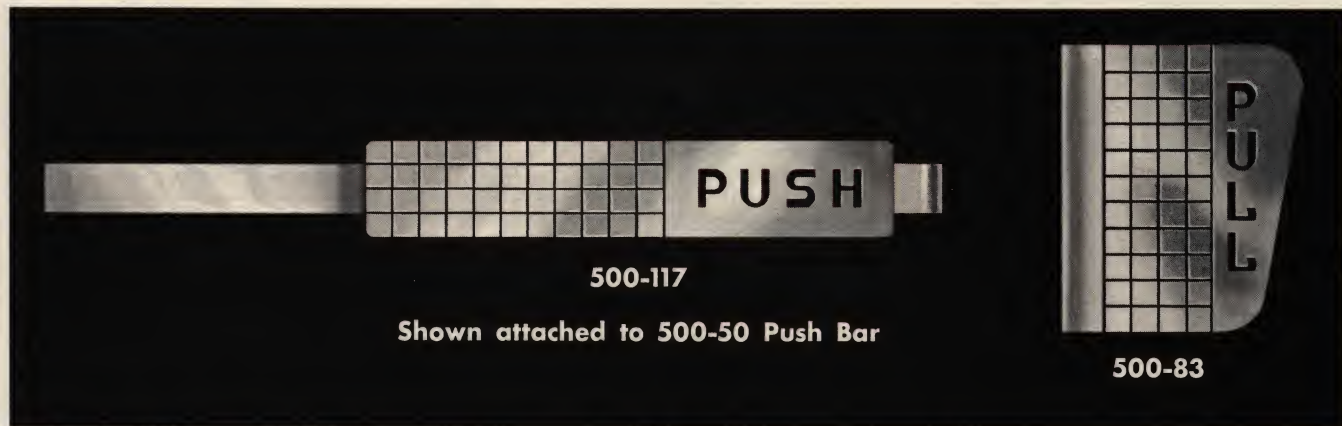


500-49



TUBELITE® PUSH AND PULLS

FINISH: POLISHED ALUMILITE 204 A2



CIPCO PUSH - PULLS



No. 184



No. 183
No. 183-O

(Not available in Stratawood)



No. 182

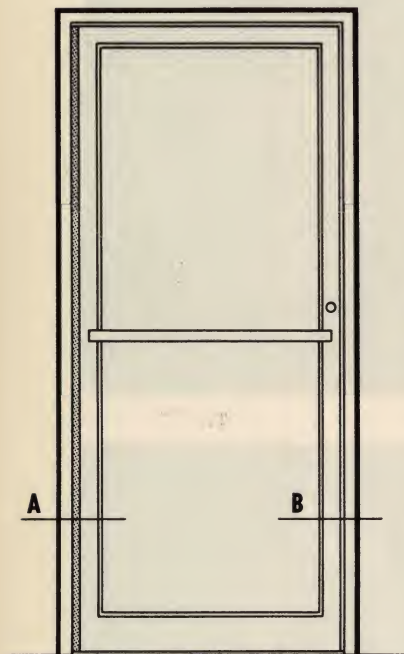


No. 187

NOTE: No. 183 is for Flush doors only.
No. 183-O is for Narrow Line doors.

Units available in Stratawood, Teak, Mahogany, Oak, Walnut and Birch.

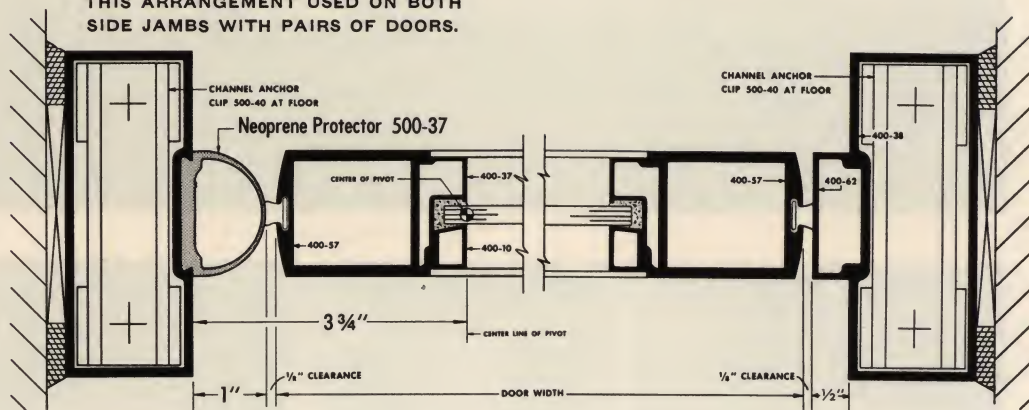
SIDE JAMB - FINGER GUARD



KEY ELEVATION

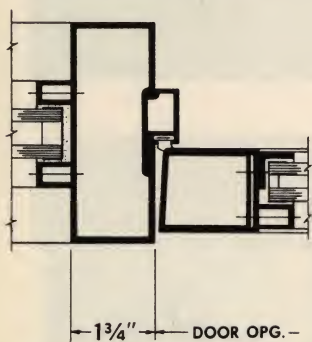
SECTION A

THIS ARRANGEMENT USED ON BOTH
SIDE JAMBS WITH PAIRS OF DOORS.

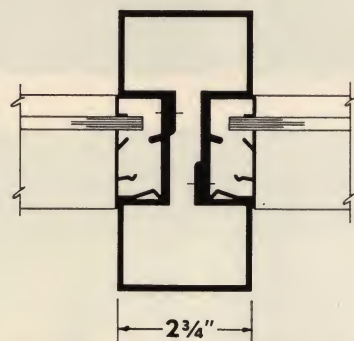


SECTION B

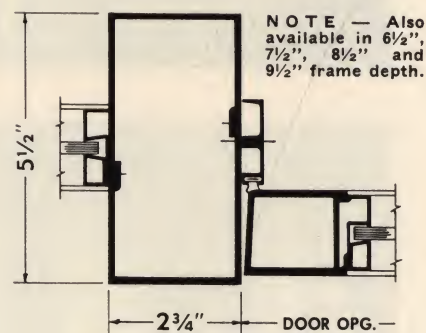
SPECIAL MULLION CONSTRUCTION



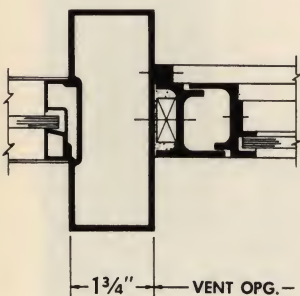
MULLION WITH TWINDOW



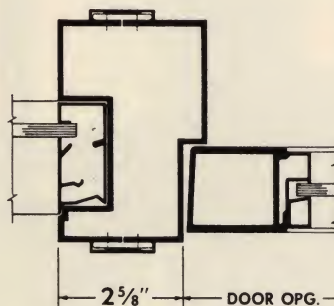
MULLION WITH RECESSED SASH NO. 17



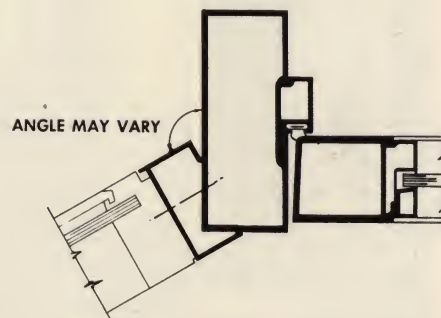
HEAVY MULLION



MULLION WITH VENTILATOR



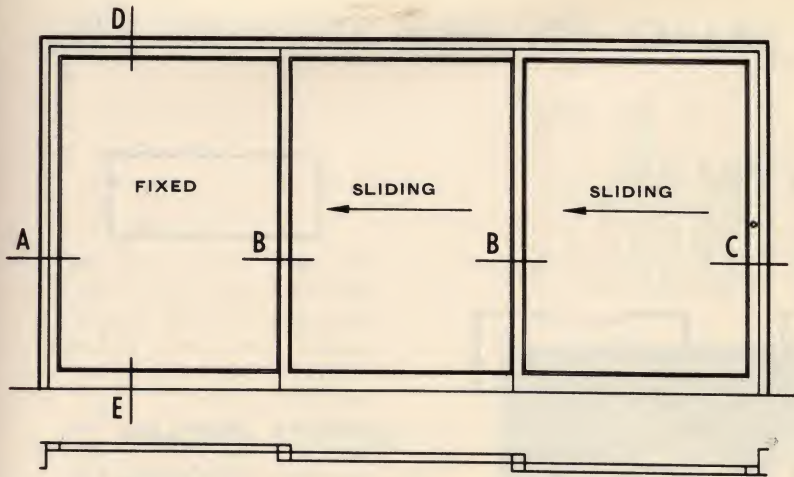
MULLION WITH RECESSED SASH NO. 17



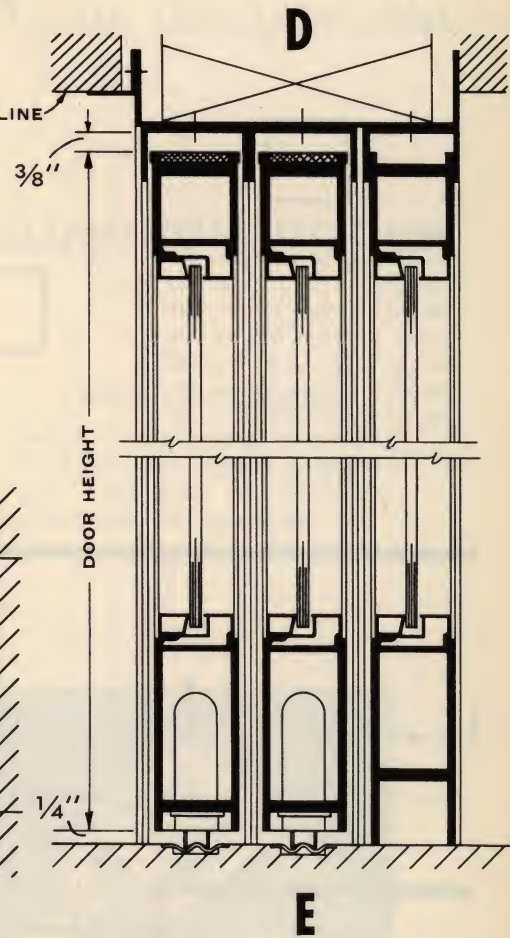
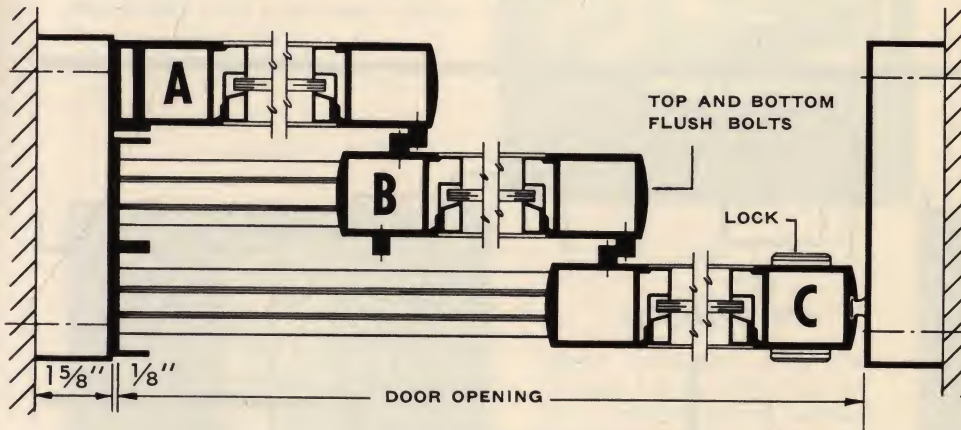
MULLION WITH SASH ADAPTOR

NOTE — Also
available in 6 1/2",
7 1/2", 8 1/2" and
9 1/2" frame depth.

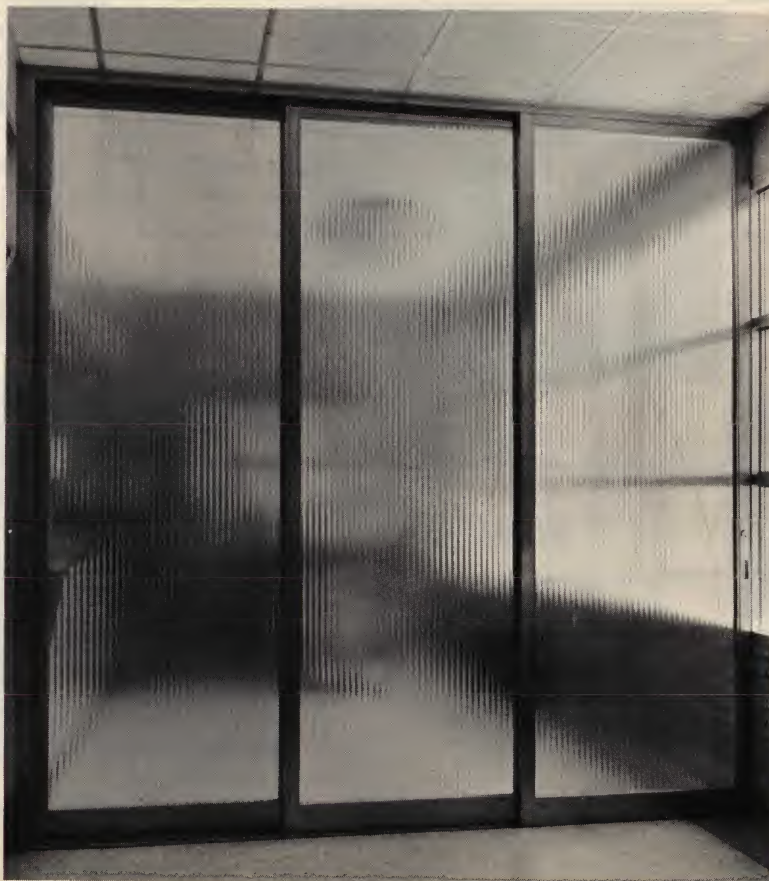
ANGLE MAY VARY



KEY PLAN & ELEVATION



SLIDING DOORS



Sliding doors for commercial and industrial use. Made up of standard extruded door construction. Equipped with bronze sheaves. Available in narrow or wide stiles.

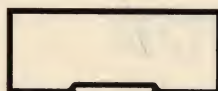
STOCK FRAME SECTIONS

FINISH-POLISHED ALUMILITE 204A2

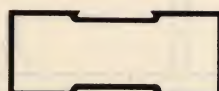
TUBE FRAMES



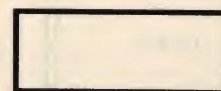
400-150	1/2" x 1/2"	x .062"
400-151	3/4" x 3/4"	x .062"
400-152	1" x 1"	x .125"
400-153	1 1/2" x 1 1/2"	x .125"
400-1	1 3/4" x 1 3/4"	x .125"
400-154	2" x 2"	x .125"
400-155	4" x 4"	x .125"
400-133	4 1/2" x 4 1/2"	x .125"



400-38
1 3/4" x 4 1/2" x .125"

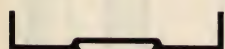


400-39
1 3/4" x 4 1/2" x .125"

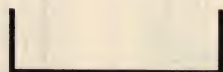


400-156	1/2" x 1"	x .125"
400-157	3/4" x 1 1/2"	x .125"
400-158	1" x 2"	x .125"
400-82	1" x 4"	x .125"
400-75	1 3/4" x 2 1/4"	x .125"
400-159	1 3/4" x 3"	x .125"
400-2	1 3/4" x 4"	x .125"
400-41	1 3/4" x 4 1/2"	x .125"
400-147	1 3/4" x 5"	x .125"
400-81	2" x 5"	x .125"
400-139	2" x 5 1/2"	x .125"

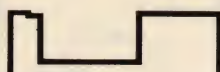
CHANNEL FRAMES



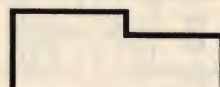
400-231
1 3/16" x 4 1/2" x .125"



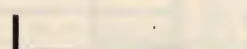
400-15
1 3/8" x 4 1/2" x .125"



400-74
1 3/8" x 4 1/2" x .125"



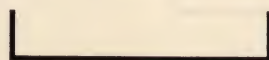
400-14
1 3/4" x 4 1/2" x .125"



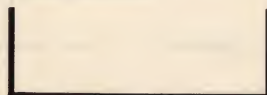
400-79
7/8" x 5" x .125"



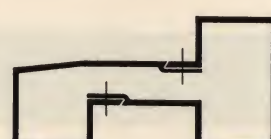
400-123 (2)
2 3/4" x 5 1/2" x .125"



400-83
1 1/16" x 5 1/2" x .125"

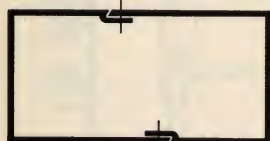


400-80
1 7/8" x 5 1/2" x .125"



400-132 & 400-123
2 3/4" x 5 1/2" x .125"

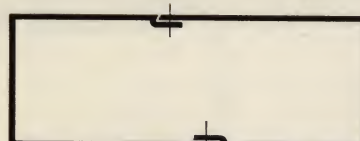
COMBINATION FRAMES



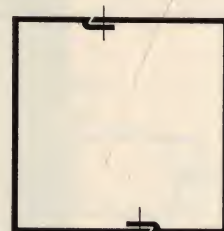
400-65 (2)
2 3/4" x 5 1/2" x .125"



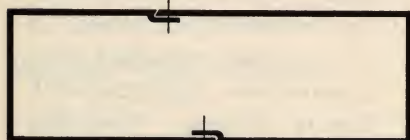
400-65 & 400-66
2 3/4" x 6 1/2" x .125"



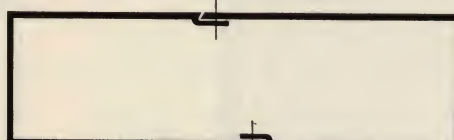
400-66 (2)
2 3/4" x 7 1/2" x .125"



400-235 (2)
4 1/2" x 4 1/2" x .125"



400-66 & 400-141
2 3/4" x 8 1/2" x .125"



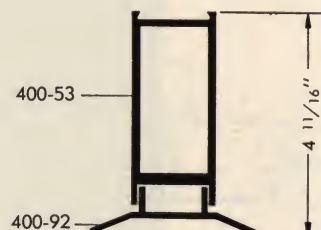
400-141 (2)
2 3/4" x 9 1/2" x .125"



400-213 (2)
3" x 12" x .156"



400-230 (2)
2 3/4" x 7 1/2" x .125"



Assembly of 400-53 & 400-92 as a sidelight base.

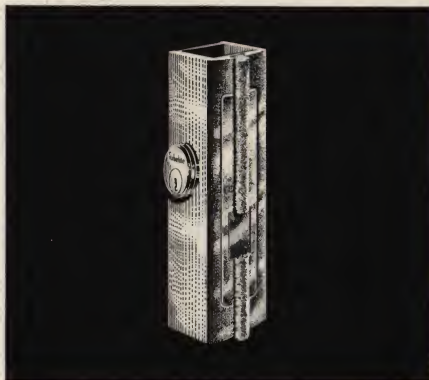
SIX REASONS WHY IT'S SMART TO USE

Tubelite

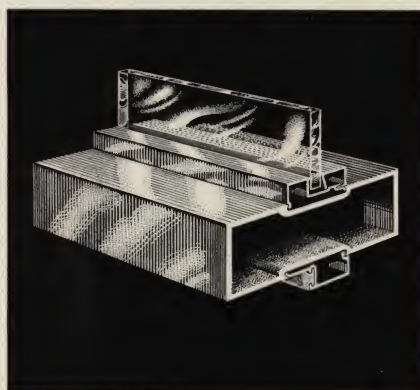
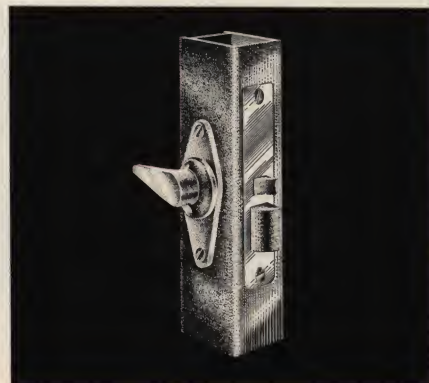
ALUMINUM DOORS

WEATHER STRIPPED

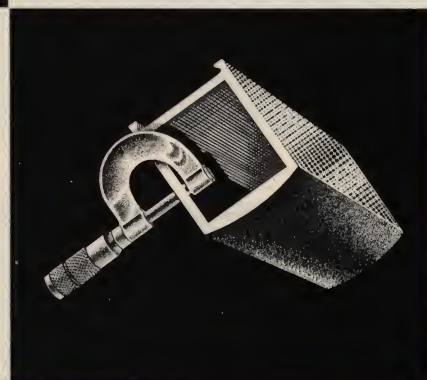
A Tubelite exclusive which provides maximum weathering by extending the pile bead into the lock face plate.

**LOCK FLEXIBILITY**

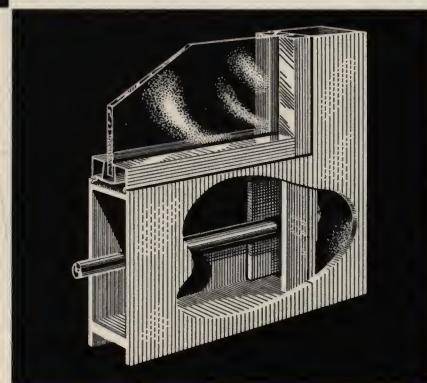
Our most recent addition. A latch lock which is interchangeable with our standard dead lock.

**WALL THICKNESS**

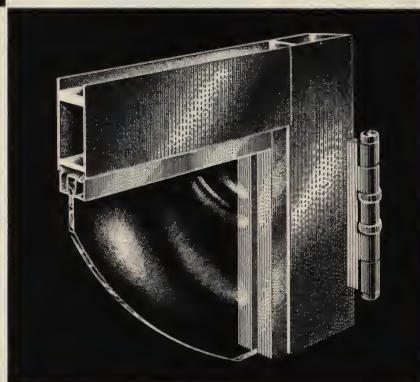
Twenty-five percent more wall thickness for added strength and assurance of adequate anchorage for hardware.

**CORNER CONSTRUCTION**

Dovetailed interlocking feature prevents any twisting. Further strength is obtained by use of stainless steel bearing plates held together under pressure by a tie rod having SAE threads and self-locking nuts.

**VERSATILITY**

Heavy extruded dovetailed tubular frame offering several combinations without visible fastenings. Also featuring continuous pile weather stop.

**BUTTS**

Extra heavy ballbearing butts with stainless steel non-rising floating pins and screw type end caps.





Tubelite®

DOOR AND FRAME SPECIFICATIONS

GENERAL: Aluminum entrances shall be Pittsburgh Plate Glass "Tubelite" tubular aluminum doors, frames, trim, anchors and hardware as shown on details.

MATERIAL: All sections of doors and frames shall be extruded members of Architectural Alloy No. 6063-T5. Screws shall be of 24S-T4 aluminum alloy and cadmium plate brass or bronze.

FABRICATION: Doors shall be fabricated of extruded hollow aluminum tubes with no exposed seams. Frames may be either extruded tube or open channel, depending upon the strength of construction required. Anchor brackets at joints and reinforcement for hardware shall be completely concealed and fastened in place without fastening method being detectable on visible surfaces. Mechanical joints of doors and frames shall be accurately milled to a hairline water-tight joint. Glazing member is of such design that it is snapped in, eliminating use of exposed screws.

FINISH: All parts shall be finished in standard 204A2. Sample of the finish will be submitted to architect (upon request) for approval.

ERECTION: All openings shall be prepared plumb and square by others. Doors and frames shall be installed in the opening plumb and in true alignment, in accordance with instructions attached to all doors. Tubular frames shall be secured to the floor by means of anchors. Anchor screws shall be used at the side and head jambs. Channel frame shall be anchored to the jambs by means of steel cores securely fastened to the jambs, and the aluminum frame attached to the anchors in accordance with drawings prepared by the fabricator.

FINISH HARDWARE: All stock doors shall have standard hardware furnished by the door manufacturer. Hardware for custom - built doors and special entrances shall be specified by the architect. Hardware furnished by others shall be sent to the door manufacturer for application to the door.



QUALITY - ECONOMY - BEAUTY - RIGIDITY

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Carol J. Dyson, AIA